

ABSTRACT

Include Figure 2b

To reduce costs in multiple-input multiple-output (MIMO) transmit or receive diversity wireless communications systems an arrangement is described whereby the number of transmit or receive chains can be reduced. Switched antenna selection is used at the transmitter or receiver. Particular advantages are found for nomadic and high speed mobility MIMO user terminals where improvements in capacity are found. In addition improved ability to deal with the effects of spatial fading is achieved. Embodiments using directional antennas in combination with switched selection are also described. These are particularly advantageous for compact user equipment intended for nomadic or mobile use.